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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,665	07/15/2003	Sung-Jae Moon	YOM-0038 7173	
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55 GRIFFIN ROAD SOUTH			DUDEK, JAMES A	
BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
			2871	
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			10/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/619,665	MOON, SUNG-JAE				
Office Action Summary	Examiner	Art Unit				
	James A. Dudek	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-6,8,9 and 11-13 is/are pending in the 4a) Of the above claim(s) 13 is/are withdrawn from 5) Claim(s) is/are allowed. 6) Claim(s) 1-6,8,9,11 and 12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to restriction and/or are subjected to by the Examine 10) The specification is objected to by the Examine 10) The drawing(s) filed on 15 July 2003 is/are: a) Applicant may not request that any objection to the consequence of the conseque	r election requirement. r. accepted or b) objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
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Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Art Unit: 2871

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 9 and 11-12 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by US 6624857 B1 (857).

Per claims 1-2, 857 teaches the liquid crystal display comprising:

TFT array [shown in figure 4, the region where the scan and data lines 2 and 3 cross] including a plurality of first display signal lines [gate lines 2], a plurality of second display signal lines crossing the first display signal lines [data lines 3], a plurality of switching elements connected to the first display signal lines and the second display signal lines [transistors at the cross points of the gate and data lines shown in figure], a plurality of pixel electrodes connected to the switching elements [pixel 14];

a driver disposed on the TFT array panel proximate to one edge of the TFT array panel [driver is 20b and the one edge of the panel is the top edge of the panel when viewing figure one];

an inspection line formed on the TFT array panel and under the driver for receiving the test signals to the second display signal lines [lines 21a-21b and 22a-22b; see column 20, third full paragraph, the inspection lines are formed at the same time as the gate and source electrodes, and then the driver 20 is connected after the formation of the panel, thus the driver 20b is above the inspection lines], and

a test pad formed on the TFT array panel and connected to the inspection line for receiving a test signal [32a-32b and 39a-39b], wherein the test pad is disposed between the driver and an edge of the TFT array panel [see figure 4]

Application/Control Number: 10/619,665

Art Unit: 2871

wherein the inspection line is separated from the first and second display signal lines, the switching elements, and the pixel electrodes [the TFT 26b provide the separation, that is the source is connected to the inspection lines and the drain is connected to the data lines, these two lines are separated with the semiconductor between them],

the test pads are direction between the driver and the one edge [see figure 1, the test pads are direction between the driver and the top of the panel and

the inspection line and second display signal lines are electrically separated [see column 8, lines 15-21, when the inspection TFT is switch off, an electrical separation is created between the second signal line the inspection lines].

Per claim 9, see the last paragraph of column 25.

Per claims 11-12, 857 teaches the liquid crystal display of claim 10, further comprising a connecting member including the same layer as the pixel electrodes, wherein the connecting member is connected to at least one of the at least one inspection line and the second display signal line [see description of embodiments one and two]

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over 857 in view of US 6424400 B1 (400).

Per claim 4-6 and 8-9, 857 teaches the liquid crystal display of claim 3, but lacks a plurality of straight connecting lines interconnecting chip drivers [see line 13] wherein the test pad is closer to an edge of the liquid crystal panel than to the connecting lines and a plurality of flexible printed circuit films attached to the liquid crystal panel, wherein the external devices are the flexible printed circuit films. However, 400 teaches each of these limitations as shown in figure 8 with chip drivers 3, tabs 11 and extending lines 10. 400 teaches that liquid crystal cells

Application/Control Number: 10/619,665 Page 4

Art Unit: 2871

benefit from this structure with increased image quality. See column 2, 8th paragraph. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine the chip extending lines and tabs of 400 with 857 to improve image quality.

Response to Arguments

Applicant's arguments filed 10/4/07 have been fully considered but they are not persuasive. See rejection above. Examiner addressed the newly added limitations in the body of the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866/217-9197 (toll-free).

Tames A. Dudek
Primary Examiner
Art Unit 2871